

## ACKNOWLEDGMENTS

This report was initiated and sponsored by Norman Bowles, Associate Director of Licensing Programs in the Office of Commercial Space Transportation (OCST) at the US Department of Transportation (DOT), to gather and organize a wide range of materials relevant to the hazards of the emerging commercial space ventures, in order to assist OCST in its rulemaking and licensing decisions. The analysis focuses on the potential hazards of space launch activities of interest to the commercial space transportation industry, based on the US Government launch experience to date, the methods of analysis and operating procedures successfully used in managing launch risks. This research project was directed by Richard Robichaud of the DOT Transportation Systems Center (TSC).

This text includes contributions and review comments from many people, who authored sections, contributed information, and rendered constructive criticism. Dr. Aviva Brecher, TSC, a specialist in space systems and hazard analysis, authored several chapters, contributed to others, edited and produced the report. Dr. Brecher built on initial efforts of Kevin Kolodzy of Dynatrend, along with Dr. John Stickler and William Hathaway of TSC, who reported on the topics of expendable launch vehicles, collisions in space and space launch hazards. As the scope of the report expanded, Dr. Jon Collins of ACTA Inc., a consulting firm known for its unique capabilities in rocket hazard and overflight analysis, contributed chapters on launch and orbital operations, Range Safety Controls and operation and hazard analysis of representative launch scenarios. Also, Dr. Albert Moussa of BlazeTech Inc., a company specializing in the analysis of fires and explosive hazards, authored the chapter on propellant hazards and Douglas Furciniti of UNISYS wrote the chapter on re-entry hazards. These individuals also contributed to the overall organization and general critique of this document. Robert A. Rudich of TSC and Douglas J. Furciniti of Dynatrend played a major role in compiling, editing and producing the present report.

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